OT 2 8 2004

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

| Substitute for form 1449A/PTO |                     |               |     | Complete if Known      |                    |  |
|-------------------------------|---------------------|---------------|-----|------------------------|--------------------|--|
|                               |                     |               |     | Application Number     | 10/660.369         |  |
| INFC                          | RMATION             | DISCLOS       | URE | Filing Date            | 09/11/2003         |  |
| _                             | TEMENT BY           |               |     | First Named Inventor   | Dennis L. Panicali |  |
| 0.7                           |                     | 711 210       | 744 | Art Unit               | 1614               |  |
|                               | (Use as many sheets | as necessary) |     | Examiner Name          | To be assigned     |  |
| Sheet                         | 1                   | of            | 1   | Attorney Docket Number | 700953-54440       |  |

| U. S. PATENT DOCUMENTS |              |   |                                |  |  |  |  |
|------------------------|--------------|---|--------------------------------|--|--|--|--|
| Examiner<br>Initiats*  | Cite<br>No.1 | Document Number  Number-Kind Code <sup>2 (if known)</sup> | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, W here<br>Relevant Passages or Relevant<br>Figures Appear |  |  |
| AW                     | Al           | <sup>US-</sup> 6,045,802                                  | 04/04/2000                     | Jeffrey Schlom et al.                              |  |  |  |
|                        | A2           | <sup>US-</sup> 6,548,068 B1                               | 04/15/2003                     | Jeffrey Schlom et al.                              |  |  |  |
|                        | A3           | US- 2004/0019195 A1                                       | 01/29/2004                     | Jefrey Schlom et al.                               |  |  |  |
|                        | A4           | US- 2004/0091995 A1                                       | 05/13/2004                     | Jeffrey Schlom et al.                              |  |  |  |
|                        |              | US-   |                                |  | ···········  |  |  |
|                        | -            | US-   |                                |  |  |  |  |
|                        |              | US-   |                                |  |  |  |  |
|                        |              | US-   |                                |  |  |  |  |
|                        |              | US-   |                                |  |  |  |  |
|                        |              | U\$-  |                                |  |  |  |  |
|                        |              | US-   |                                |  | <u> </u>   |  |  |
|                        |              | US-   |                                |  |  |  |  |
|                        | <u> </u>     | US-   |                                |  |  |  |  |
|                        |              | US-<br>US-  |                                |  |  |  |  |
|                        |              | US-   |                                |  |  |  |  |
|                        | -            | US-   |                                | <del>                                     </del>   | <u> </u>   |  |  |

|                       | FOREIGN PATENT DOCUMENTS |   |                                |  |   |                |  |  |
|-----------------------|--------------------------|---|--------------------------------|--|---|----------------|--|--|
| Examiner<br>Initials* | Cite<br>No.1             | Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If Innown) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |  |  |
|                       |                          |   |                                |  |   |                |  |  |
|                       |                          |   |                                |  |   |                |  |  |
|                       |                          |   |                                |  |   |                |  |  |
|                       |                          |   |                                |  |   |                |  |  |
|                       |                          |   |                                |  |   |                |  |  |

| Examiner<br>Signature | /Anne Marie Wehbe/ (0 | 5/19/2006) | Date<br>Considered |  |
|-----------------------|-----------------------|------------|--------------------|--|

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPT O. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 06/30/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449B/PTO Complete if Known Application Number 10/660,369 INFORMATION DISCLOSURE

STATEMENT BY APPLICANT (Use as many sheets as necessary)

Sheet

Filing Date 09/11/2003 First Named Inventor Dennis L. Panicali Art Unit 1614 Examiner Name To be assigned Attorney Docket Number | 700953-54440

|                      | NON PATENT LITERATURE DOCUMENTS |   |    |  |  |  |  |
|----------------------|---------------------------------|---|----|--|--|--|--|
| Examine<br>Initials* | Cite<br>No.1                    | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |  |  |  |  |
| AW                   | Cı                              | BJARNE BOGEN ET AL., "Processing and Presentation of Idiotypes to MHC-Restricted T Cells," Intern. Rev. Immunol., Vol. 10, p. 337-355, (1993).  |    |  |  |  |  |
|                      | C2                              | BIARNE BOGEN, "Idiotope-specific T cell clones that recognize syngeneic immunoglobulin fragments in the context of class II molecules," Eur. J. Immunol., Vol. 16, p. 1373-1378, (1986).  |    |  |  |  |  |
|                      | C3                              | STEPHANIE A. CAMACHO ET AL., "A key role for ICAM-1 in generating effector cells mediating inflammatory responses," Nature Immunology, Vol. 2 (No. 6), p. 523-529, (2001).  |    |  |  |  |  |
|                      | C4                              | MICHAEL CROFT ET AL., "Naive Versus Memory CD4 T Cell Response to Antigen," Journal of Immunology, Vol. 152, p. 2675-2685, (1994).  |    |  |  |  |  |
|                      | C5                              | MATTHEW J.DEETHS ET AL., "ICAM-1 and B7-1 provide similar but distinct costimulation for CD8+ T cells, while CD4+ T cells are poorly costimulated by ICAM-1," Eur. J. Immunol., Vol. 29, p. 45-53, (1999).  |    |  |  |  |  |
|                      | C6                              | KYRIAKI DUNUSSI-JOANNOPOULOS ET AL., "Irradiated B7-1 Transduced Primary Acute Myelogenous Leukemis (AML) Cells Can Be Used as Therapeutic Vaccines in Murine AML," Vol. 87 (No. 1), p. 2938-2946, (1996).  |    |  |  |  |  |
|                      | C7                              | KARL ERIK HELLSTROM ET AL., "On the Role Costimulation in Tumor Immunity," Annals New York Academy of Sciences, Vol. 690, p. 225-230, (1993).   |    |  |  |  |  |
|                      | C8                              | JAMES W. HODGE ET AL., "A Triad of Costimulatory Molecules Synergize to Amplify T-Cell Activation," Cancer Research, Vol. 59, p. 5800-5807, (November 15, 1999).  |    |  |  |  |  |
|                      |                                 | KAZUNORI KATO ET AL., "Gene Transfer of CD40-Ligand Induces Autologous Immune Recognition of Chronic Lymphocytic Leukemia B Cells," J. Clin. Invest., Vol. 101 (No. 5), p. 1133-1141, (March, 1998).  |    |  |  |  |  |
| $\bigvee$            | C10                             | DAVID N. LIEBOWITZ ET AL., "Costimulatory approaches to adoptive immunotherapy," Current Opinion in Oncology, Vol. 10, p. 533-541, (1998).  |    |  |  |  |  |

| Examiner<br>Signature | /Anne Marie Wehbe/ (05/19/2006) | Date<br>Considered |
|-----------------------|---------------------------------|--------------------|
| 3.12.2.3              |                                 |                    |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete. including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03)
Approved for use through 06/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Substitute for | form 1449B/PTO         | _          |      | Complete if Known      |                    |  |
|----------------|------------------------|------------|------|------------------------|--------------------|--|
|                |                        |            |      | Application Number     | 10/660,369         |  |
|                | RMATION DI             |            |      | Filing Date            | 09/11/2003         |  |
| STATI          | EMENT BY               | APPLI      | CANT | First Named Inventor   | Dennis L. Panicali |  |
|                |                        |            |      | Art Unit               | 1614               |  |
|                | (Use as many sheets as | necessary) |      | Examiner Name          | To be assigned     |  |
| Sheet          | 2                      | of         | 2    | Attorney Docket Number | 700953-54440       |  |

|                       |     |     | NON PATENT LITERATURE DOCUMENTS  | -  |  |
|-----------------------|-----|-----|--|----|--|
| Examiner<br>Initials* |     |     |  | T² |  |
| A                     | AW  |     | EDUARDO PARRA ET AL., "The Role of B7-1 and LFA-3 in Costimulation of CD8+ T Cells," The Journal of Immunology, Vol. 158, p. 637-642, (1997).  |    |  |
| C12                   |     | C12 | JOACHIM L. SCHULTZE ET AL., "Follicular lymphomas can be induced to present alloantigen efficiently: A conceptual model to improve their tumor immunogenecity," Proc. Natl. Acad. Sci. USA, Vol. 92, p. 8200-8204, (August, 1995). |    |  |
|                       |     | C13 | JOACHIM L. SCHULTZE, "Why Do B Cell Lymphoma Fail to Elicit Clinically Sufficient T Cell Immune Responses," Leukemia and Lymphoma, Vol. 32 (No. 3-4), p. 223-236, (1999).  |    |  |
|                       | C14 |     | SARAH E. TOWNSEND ET AL., "Tumor Rejection After Direct Costimulation of CD8+ T Cells by B7-Transfected Melanoma Cells," Science, Vol. 259, p. 368-370, (January 15, 1993).  |    |  |
|                       |     | C15 | ANTONELLA VIOLA ET AL., "T Cell Activation Determined by T Cell Receptor Number and Tunable Thresholds," Science, Vol. 273, p. 104-106, (July 5, 1996).  |    |  |
|                       | /   | C16 | ANETTE GJORLOFF WINGREN ET AL., "T Cell Activation Pathways: B7, LFA-3, and ICAM-1 Shape Unique T Cell Profiles," Critical Reviews in Immunology, Vol. 15 (No. 3&4), p. 235-253, (1995).   |    |  |
|                       |     |     |  |    |  |
|                       |     |     |  |    |  |
|                       |     |     |  |    |  |
|                       |     |     |  |    |  |

| Examiner<br>Signature | /Anne Marie Wehbe/ | (05/19/2006) | Date<br>Considered |  |
|-----------------------|--------------------|--------------|--------------------|--|

<sup>&#</sup>x27;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete uncluding gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.